

# Young-Kwon Park

## List of Publications by Citations

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503  
papers

11,358  
citations

49  
h-index

84  
g-index

520  
ext. papers

14,443  
ext. citations

6.1  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
503	Production and utilization of biochar: A review. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 40, 1-15	6.3	611
502	Comparison of biochar properties from biomass residues produced by slow pyrolysis at 500°C. <i>Bioresource Technology</i> , <b>2013</b> , 148, 196-201	11	345
501	Catalytic roles of metals and supports on hydrodeoxygenation of lignin monomer guaiacol. <i>Catalysis Communications</i> , <b>2012</b> , 17, 54-58	3.2	265
500	Characterization of cadmium removal from aqueous solution by biochar produced from a giant Miscanthus at different pyrolytic temperatures. <i>Bioresource Technology</i> , <b>2013</b> , 138, 266-70	11	243
499	Highly valuable chemicals production from catalytic upgrading of radiata pine sawdust-derived pyrolytic vapors over mesoporous MFI zeolites. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 95, 365-373	21.8	231
498	The characteristics of bio-oil produced from the pyrolysis of three marine macroalgae. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3512-20	11	208
497	Bio-oil production from fast pyrolysis of waste furniture sawdust in a fluidized bed. <i>Bioresource Technology</i> , <b>2010</b> , 101 Suppl 1, S91-6	11	199
496	Slow pyrolysis of rice straw: analysis of products properties, carbon and energy yields. <i>Bioresource Technology</i> , <b>2014</b> , 155, 63-70	11	182
495	Steam reforming of biomass gasification tar using benzene as a model compound over various Ni supported metal oxide catalysts. <i>Bioresource Technology</i> , <b>2010</b> , 101 Suppl 1, S101-3	11	156
494	Clean bio-oil production from fast pyrolysis of sewage sludge: effects of reaction conditions and metal oxide catalysts. <i>Bioresource Technology</i> , <b>2010</b> , 101 Suppl 1, S83-5	11	144
493	Effects of the operating parameters on the production of bio-oil in the fast pyrolysis of Japanese larch. <i>Chemical Engineering Journal</i> , <b>2008</b> , 143, 124-132	14.7	118
492	Catalytic pyrolysis of biomass components over mesoporous catalysts using Py-GC/MS. <i>Catalysis Today</i> , <b>2013</b> , 204, 170-178	5.3	117
491	Fast pyrolysis of rice husk under different reaction conditions. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2010</b> , 16, 27-31	6.3	115
490	Characteristics of biochar produced from slow pyrolysis of Geodae-Uksae 1. <i>Bioresource Technology</i> , <b>2013</b> , 130, 345-50	11	113
489	Overview of the recent advances in lignocellulose liquefaction for producing biofuels, bio-based materials and chemicals. <i>Bioresource Technology</i> , <b>2019</b> , 279, 373-384	11	111
488	Production of phenolics and aromatics by pyrolysis of miscanthus. <i>Fuel</i> , <b>2012</b> , 97, 379-384	7.1	107
487	Catalytic Hydrodeoxygenation of Bio-oil Model Compounds over Pt/HY Catalyst. <i>Scientific Reports</i> , <b>2016</b> , 6, 28765	4.9	106

486	Influence of operation variables on fast pyrolysis of <i>Miscanthus sinensis</i> var. <i>purpurascens</i> . <i>Bioresource Technology</i> , <b>2010</b> , 101, 3672-7	11	104
485	Thermal and chemical regeneration of spent activated carbon and its adsorption property for toluene. <i>Chemical Engineering Journal</i> , <b>2012</b> , 210, 500-509	14.7	97
484	Hydrodeoxygenation of guaiacol over Pt loaded zeolitic materials. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 37, 18-21	6.3	95
483	Strategic use of biochar for CO <sub>2</sub> capture and sequestration. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 32, 128-139	7.6	91
482	Catalytic Copyrolysis of Cellulose and Thermoplastics over HZSM-5 and HY. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1354-1363	8.3	90
481	Pyrolysis kinetics and decomposition characteristics of pine trees. <i>Bioresource Technology</i> , <b>2010</b> , 101, 9797-802	11	90
480	Recent advances in catalytic co-pyrolysis of biomass and plastic waste for the production of petroleum-like hydrocarbons. <i>Bioresource Technology</i> , <b>2020</b> , 310, 123473	11	88
479	Removal of copper(II) in aqueous solution using pyrolytic biochars derived from red macroalga <i>Porphyra tenera</i> . <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 36, 314-319	6.3	87
478	Pyrolysis characteristics of Oriental white oak: Kinetic study and fast pyrolysis in a fluidized bed with an improved reaction system. <i>Fuel Processing Technology</i> , <b>2009</b> , 90, 186-195	7.2	87
477	Recent advances in the catalytic hydrodeoxygenation of bio-oil. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 3299-3315	2.8	86
476	Catalytic co-pyrolysis of torrefied yellow poplar and high-density polyethylene using microporous HZSM-5 and mesoporous Al-MCM-41 catalysts. <i>Energy Conversion and Management</i> , <b>2017</b> , 149, 966-973	10.6	84
475	Recent progress in the thermal and catalytic conversion of lignin. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 111, 422-441	16.2	83
474	Influence of Reaction Temperature, Pretreatment, and a Char Removal System on the Production of Bio-oil from Rice Straw by Fast Pyrolysis, Using a Fluidized Bed. <i>Energy &amp; Fuels</i> , <b>2005</b> , 19, 2179-2184	4.1	83
473	Microwave steam activation, an innovative pyrolysis approach to convert waste palm shell into highly microporous activated carbon. <i>Journal of Environmental Management</i> , <b>2019</b> , 236, 245-253	7.9	80
472	The low-temperature SCR of NO over rice straw and sewage sludge derived char. <i>Chemical Engineering Journal</i> , <b>2010</b> , 156, 321-327	14.7	78
471	Upgrading of biofuel by the catalytic deoxygenation of biomass. <i>Korean Journal of Chemical Engineering</i> , <b>2012</b> , 29, 1657-1665	2.8	71
470	Catalytic hydrodeoxygenation of 2-methoxy phenol and dibenzofuran over Pt/mesoporous zeolites. <i>Energy</i> , <b>2015</b> , 81, 33-40	7.9	68
469	Synthesis of highly stable mesoporous aluminosilicates from commercially available zeolites and their application to the pyrolysis of woody biomass. <i>Catalysis Today</i> , <b>2008</b> , 132, 68-74	5.3	65

468	In-situ catalytic pyrolysis of lignin in a bench-scale fixed bed pyrolyzer. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 54, 447-453	6.3	63
467	Engineering pyrolysis biochar via single-step microwave steam activation for hazardous landfill leachate treatment. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 390, 121649	12.8	63
466	The synthesis and coating process of TiO <sub>2</sub> nanoparticles using CVD process. <i>Powder Technology</i> , <b>2011</b> , 214, 64-68	5.2	61
465	Catalytic Vapor Cracking for Improvement of Bio-Oil Quality. <i>Catalysis Surveys From Asia</i> , <b>2011</b> , 15, 161-188	10.8	59
464	Catalytic pyrolysis of lignin using a two-stage fixed bed reactor comprised of in-situ natural zeolite and ex-situ HZSM-5. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 122, 282-288	6	59
463	Removal characteristics of copper by marine macro-algae-derived chars. <i>Chemical Engineering Journal</i> , <b>2013</b> , 217, 205-211	14.7	58
462	Recent advances in volatile organic compounds abatement by catalysis and catalytic hybrid processes: A critical review. <i>Science of the Total Environment</i> , <b>2020</b> , 719, 137405	10.2	57
461	Co-processing of oil palm waste and waste oil via microwave co-torrefaction: A waste reduction approach for producing solid fuel product with improved properties. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 128, 30-35	5.5	56
460	Production of aromatic hydrocarbons via catalytic co-pyrolysis of torrefied cellulose and polypropylene. <i>Energy Conversion and Management</i> , <b>2016</b> , 129, 81-88	10.6	53
459	Upgrading of bio-oil derived from biomass constituents over hierarchical unilamellar mesoporous MFI nanosheets. <i>Catalysis Today</i> , <b>2014</b> , 232, 119-126	5.3	53
458	Catalytic upgrading of oil fractions separated from food waste leachate. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3952-7	11	52
457	Efficient depolymerization of lignin in supercritical ethanol by a combination of metal and base catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 57, 45-54	6.3	52
456	Pyrolysis and catalytic upgrading of Citrus unshiu peel. <i>Bioresource Technology</i> , <b>2015</b> , 194, 312-9	11	50
455	Microwave pyrolysis valorization of used baby diaper. <i>Chemosphere</i> , <b>2019</b> , 230, 294-302	8.4	49
454	Bench scale catalytic fast pyrolysis of empty fruit bunches over low cost catalysts and HZSM-5 using a fixed bed reactor. <i>Journal of Cleaner Production</i> , <b>2018</b> , 176, 298-303	10.3	49
453	In-situ and ex-situ catalytic pyrolysis/co-pyrolysis of empty fruit bunches using mesostructured aluminosilicate catalysts. <i>Chemical Engineering Journal</i> , <b>2019</b> , 366, 330-338	14.7	48
452	Property and performance of red mud-based catalysts for the complete oxidation of volatile organic compounds. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 300, 104-113	12.8	48
451	Ex-situ catalytic pyrolysis of citrus fruit peels over mesoporous MFI and Al-MCM-41. <i>Energy Conversion and Management</i> , <b>2016</b> , 125, 277-289	10.6	48

450	Property of a highly active bimetallic catalyst based on a supported manganese oxide for the complete oxidation of toluene. <i>Powder Technology</i> , <b>2014</b> , 266, 292-298	5.2	48
449	Effect of pore structure of amine-functionalized mesoporous silica-supported rhodium catalysts on 1-octene hydroformylation. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 123, 289-297	5.3	48
448	Enhancement of C O bond cleavage to afford aromatics in the hydrodeoxygenation of anisole over ruthenium-supporting mesoporous metal oxides. <i>Applied Catalysis A: General</i> , <b>2017</b> , 544, 84-93	5.1	47
447	Comparison of removal ability of indoor formaldehyde over different materials functionalized with various amine groups. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2011</b> , 17, 1-5	6.3	47
446	Pyrolysis reaction characteristics of Korean pine ( <i>Pinus Koraiensis</i> ) nut shell. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 110, 435-441	6	45
445	Bioelectrochemical systems for a circular bioeconomy. <i>Bioresource Technology</i> , <b>2020</b> , 300, 122748	11	45
444	Investigation into the lignin decomposition mechanism by analysis of the pyrolysis product of <i>Pinus radiata</i> . <i>Bioresource Technology</i> , <b>2016</b> , 219, 371-377	11	45
443	Overview of biochar production from preservative-treated wood with detailed analysis of biochar characteristics, heavy metals behaviors, and their ecotoxicity. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121356	12.8	45
442	In-situ catalytic copyrolysis of cellulose and polypropylene over desilicated ZSM-5. <i>Catalysis Today</i> , <b>2017</b> , 293-294, 151-158	5.3	44
441	Analytical pyrolysis of waste paper laminated phenolic-printed circuit board (PLP-PCB). <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 115, 87-95	6	44
440	Catalytic conversion of <i>Laminaria japonica</i> over microporous zeolites. <i>Energy</i> , <b>2014</b> , 66, 2-6	7.9	44
439	Effects of operation conditions on pyrolysis characteristics of agricultural residues. <i>Renewable Energy</i> , <b>2012</b> , 42, 125-130	8.1	44
438	Valorization of underutilized waste biomass from invasive species to produce biochar for energy and other value-added applications. <i>Environmental Research</i> , <b>2020</b> , 186, 109596	7.9	43
437	Rapid degradation of methyl orange using hybrid advanced oxidation process and its synergistic effect. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 35, 205-210	6.3	41
436	Upgrading of pyrolysis bio-oil using WO <sub>3</sub> /ZrO <sub>2</sub> and Amberlyst catalysts: Evaluation of acid number and viscosity. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 2180-2187	2.8	41
435	Catalytic pyrolysis of lignin for the production of aromatic hydrocarbons: Effect of magnesium oxide catalyst. <i>Energy</i> , <b>2019</b> , 179, 669-675	7.9	38
434	Mild hydrodeoxygenation of phenolic lignin model compounds over a FeReO <sub>x</sub> /ZrO <sub>2</sub> catalyst: zirconia and rhenium oxide as efficient dehydration promoters. <i>Green Chemistry</i> , <b>2018</b> , 20, 1472-1483	10	38
433	Benzene oxidation with ozone over MnO <sub>x</sub> /SBA-15 catalysts. <i>Catalysis Today</i> , <b>2013</b> , 204, 108-113	5.3	38

432	Facile synthesis of iron-ruthenium bimetallic oxide nanoparticles on carbon nanotube composites by liquid phase plasma method for supercapacitor. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 2993-2998	2.8	38
431	Low temperature selective catalytic reduction of NO with NH <sub>3</sub> over Mn supported on Ce <sub>0.65</sub> Zr <sub>0.35</sub> O <sub>2</sub> prepared by supercritical method: Effect of Mn precursors on NO reduction. <i>Catalysis Today</i> , <b>2012</b> , 185, 290-295	5.3	38
430	Recent advances in the catalytic pyrolysis of microalgae. <i>Catalysis Today</i> , <b>2020</b> , 355, 263-271	5.3	38
429	Stabilization of bio-oil over a low cost dolomite catalyst. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 922-925	2.8	36
428	Removal of Cu(2+) by biochars derived from green macroalgae. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 985-94	5.1	35
427	In-situ catalytic co-pyrolysis of yellow poplar and high-density polyethylene over mesoporous catalysts. <i>Energy Conversion and Management</i> , <b>2017</b> , 151, 116-122	10.6	35
426	Copyrolysis of block polypropylene with waste wood chip. <i>Korean Journal of Chemical Engineering</i> , <b>2011</b> , 28, 497-501	2.8	35
425	Application of hierarchical MFI zeolite for the catalytic pyrolysis of Japanese larch. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 355-9	1.3	35
424	Hydrocarbon synthesis through CO <sub>2</sub> hydrogenation over CuZnOZrO <sub>2</sub> /zeolite hybrid catalysts. <i>Catalysis Today</i> , <b>1998</b> , 44, 165-173	5.3	35
423	Pyrolysis of polypropylene over mesoporous MCM-48 material. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1125-1128	3.9	35
422	Influence of reaction conditions on bio-oil production from pyrolysis of construction waste wood. <i>Renewable Energy</i> , <b>2014</b> , 65, 41-48	8.1	34
421	Catalytic co-pyrolysis of biomass carbohydrates with LLDPE over Al-SBA-15 and mesoporous ZSM-5. <i>Catalysis Today</i> , <b>2017</b> , 298, 46-52	5.3	34
420	Removal of Cu(II)-ion over amine-functionalized mesoporous silica materials. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2011</b> , 17, 504-509	6.3	34
419	Synthesis of anionic multichain type surfactant and its effect on methane gas hydrate formation. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2011</b> , 17, 120-124	6.3	34
418	Synthesis of different biofuels from livestock waste materials and their potential as sustainable feedstocks [A review]. <i>Energy Conversion and Management</i> , <b>2021</b> , 236, 114038	10.6	34
417	Ex situ catalytic upgrading of lignocellulosic biomass components over vanadium contained H-MCM-41 catalysts. <i>Catalysis Today</i> , <b>2016</b> , 265, 184-191	5.3	33
416	Catalytic pyrolysis of mandarin residue from the mandarin juice processing industry. <i>Bioresource Technology</i> , <b>2013</b> , 136, 431-6	11	33
415	Catalytic conversion of particle board over microporous catalysts. <i>Renewable Energy</i> , <b>2013</b> , 54, 105-110	8.1	33

4 <sup>14</sup>	Analytical pyrolysis properties of waste medium-density fiberboard and particle board. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 32, 345-352	6.3	33
4 <sup>13</sup>	Catalytic Pyrolysis of Polystyrene over Steel Slag under CO Environment. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 395, 122576	12.8	33
4 <sup>12</sup>	Valorization of municipal wastes using co-pyrolysis for green energy production, energy security, and environmental sustainability: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 129749	14.7	33
4 <sup>11</sup>	Catalytic co-pyrolysis of yellow poplar wood and polyethylene terephthalate over two stage calcium oxide-ZSM-5. <i>Applied Energy</i> , <b>2019</b> , 250, 1706-1718	10.7	32
4 <sup>10</sup>	Non-Isothermal Pyrolysis of Citrus Unshiu Peel. <i>Bioenergy Research</i> , <b>2015</b> , 8, 431-439	3.1	32
4 <sup>09</sup>	Catalytic hydrodeoxygenation of crude bio-oil in supercritical methanol using supported nickel catalysts. <i>Renewable Energy</i> , <b>2019</b> , 144, 159-166	8.1	32
4 <sup>08</sup>	Carbon dioxide-cofeeding pyrolysis of pine sawdust over nickle-based catalyst for hydrogen production. <i>Energy Conversion and Management</i> , <b>2019</b> , 201, 112140	10.6	32
4 <sup>07</sup>	Indoor formaldehyde removal over CMK-3. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 7	5	32
4 <sup>06</sup>	Catalytic pyrolysis of Japanese larch using spent HZSM-5. <i>Korean Journal of Chemical Engineering</i> , <b>2010</b> , 27, 73-75	2.8	32
4 <sup>05</sup>	Pyrolysis kinetics and product properties of softwoods, hardwoods, and the nut shell of softwood. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 2350-2358	2.8	31
4 <sup>04</sup>	Catalytic fast pyrolysis of wood plastic composite over microporous zeolites. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 119742	14.7	31
4 <sup>03</sup>	Enhancement of aromatics from catalytic pyrolysis of yellow poplar: Role of hydrogen and methane decomposition. <i>Bioresource Technology</i> , <b>2020</b> , 315, 123835	11	31
4 <sup>02</sup>	Enhanced stability of bio-oil and diesel fuel emulsion using Span 80 and Tween 60 emulsifiers. <i>Journal of Environmental Management</i> , <b>2019</b> , 231, 694-700	7.9	31
4 <sup>01</sup>	Insight into the effect of metal and support for mild hydrodeoxygenation of lignin-derived phenolics to BTX aromatics. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 120121	14.7	31
4 <sup>00</sup>	Catalytic co-pyrolysis of cellulose and linear low-density polyethylene over MgO-impregnated catalysts with different acid-base properties. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 375-381	14.7	30
399	Synthesis of manganese oxide/activated carbon composites for supercapacitor application using a liquid phase plasma reduction system. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 754-759	6.7	30
398	Photocatalytic reactions of 2,4-dichlorophenoxyacetic acid using a microwave-assisted photocatalysis system. <i>Chemical Engineering Journal</i> , <b>2015</b> , 278, 259-264	14.7	30
397	Co-feeding effect of waste plastic films on the catalytic pyrolysis of <i>Quercus variabilis</i> over microporous HZSM-5 and HY catalysts. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122151	14.7	30

396	Catalytic pyrolysis of waste rice husk over mesoporous materials. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 18	5	30
395	Effect of calcination temperature on the oxidation of benzene with ozone at low temperature over mesoporous $\gamma$ -Mn <sub>2</sub> O <sub>3</sub> . <i>Powder Technology</i> , <b>2011</b> , 214, 458-462	5.2	30
394	Pyrolysis properties and kinetics of mandarin peel. <i>Korean Journal of Chemical Engineering</i> , <b>2011</b> , 28, 2012-2016	2.8	30
393	Catalytic pyrolysis of wood polymer composites over hierarchical mesoporous zeolites. <i>Energy Conversion and Management</i> , <b>2019</b> , 195, 727-737	10.6	29
392	Catalytic fast pyrolysis of waste pepper stems over HZSM-5. <i>Renewable Energy</i> , <b>2015</b> , 79, 20-27	8.1	29
391	Wild reed of Suncheon Bay: Potential bio-energy source. <i>Renewable Energy</i> , <b>2012</b> , 42, 168-172	8.1	29
390	Synthesis of nickel/biochar composite from pyrolysis of <i>Microcystis aeruginosa</i> and its practical use for syngas production. <i>Bioresource Technology</i> , <b>2020</b> , 300, 122712	11	29
389	Microalgae and ammonia: A review on inter-relationship. <i>Fuel</i> , <b>2021</b> , 303, 121303	7.1	29
388	Titanium dioxide modification with cobalt oxide nanoparticles for photocatalysis. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 32, 259-263	6.3	28
387	Catalytic ozonation of toluene using Mn-M bimetallic HZSM-5 (M: Fe, Cu, Ru, Ag) catalysts at room temperature. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 397, 122577	12.8	28
386	Suppressed char agglomeration by rotary kiln reactor with alumina ball during the pyrolysis of Kraft lignin. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 66, 72-77	6.3	28
385	Catalytic fast pyrolysis of lignin over mesoporous Y zeolite using Py-GC/MS. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 2640-6	1.3	28
384	Pyrolysis Reaction Pathways of Waste Epoxy-Printed Circuit Board. <i>Environmental Engineering Science</i> , <b>2013</b> , 30, 706-712	2	28
383	Thermal degradation of plywood with block polypropylene in TG and batch reactor system. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2011</b> , 17, 549-553	6.3	28
382	Sawdust pyrolysis from the furniture industry in an auger pyrolysis reactor system for biochar and bio-oil production. <i>Energy Conversion and Management</i> , <b>2020</b> , 226, 113502	10.6	28
381	Removal of toluene using ozone at room temperature over mesoporous Mn/AlO catalysts. <i>Environmental Research</i> , <b>2019</b> , 172, 649-657	7.9	27
380	Catalytic copyrolysis of torrefied cork oak and high density polyethylene over a mesoporous HY catalyst. <i>Catalysis Today</i> , <b>2018</b> , 307, 301-307	5.3	27
379	Selective oxidation of refractory sulfur compounds for the production of low sulfur transportation fuel. <i>Korean Journal of Chemical Engineering</i> , <b>2013</b> , 30, 509-517	2.8	27

378	Catalytic hydroxylation of lignin: Suppression of coke formation in mild hydrodeoxygenation of lignin-derived phenolics. <i>Chemical Engineering Journal</i> , <b>2020</b> , 386, 121348	14.7	27
377	Production of value-added aromatics from wasted COVID-19 mask via catalytic pyrolysis. <i>Environmental Pollution</i> , <b>2021</b> , 283, 117060	9.3	27
376	Recent application of biochar on the catalytic biorefinery and environmental processes. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 2147-2150	8.1	26
375	Oligomerization and isomerization of dicyclopentadiene over mesoporous materials produced from zeolite beta. <i>Catalysis Today</i> , <b>2014</b> , 232, 69-74	5.3	26
374	Preparation and Characterization of Copper Nanoparticles via the Liquid Phase Plasma Method. <i>Current Nanoscience</i> , <b>2014</b> , 10, 7-10	1.4	26
373	NH <sub>3</sub> selective catalytic reduction (SCR) of nitrogen oxides (NO <sub>x</sub> ) over activated sewage sludge char. <i>Korean Journal of Chemical Engineering</i> , <b>2011</b> , 28, 106-113	2.8	26
372	Bio-oil upgrading through hydrogen transfer reactions in supercritical solvents. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126527	14.7	26
371	Using CO as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6329-6343	10.3	25
370	Selective hydroisomerization of n-dodecane over platinum supported on SAPO-11. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 775-780	6.3	25
369	Biohydrogen production from catalytic conversion of food waste via steam and air gasification using eggshell- and homo-type Ni/AlO catalysts. <i>Bioresource Technology</i> , <b>2021</b> , 320, 124313	11	25
368	Catalytic co-pyrolysis of epoxy-printed circuit board and plastics over HZSM-5 and HY. <i>Journal of Cleaner Production</i> , <b>2017</b> , 168, 366-374	10.3	24
367	Direct coating of V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> nanoparticles onto glass beads by chemical vapor deposition. <i>Powder Technology</i> , <b>2012</b> , 231, 135-140	5.2	24
366	Selective synthesis of C <sub>3</sub> -C <sub>4</sub> hydrocarbons through carbon dioxide hydrogenation on hybrid catalysts composed of a methanol synthesis catalyst and SAPO. <i>Applied Catalysis A: General</i> , <b>1995</b> , 124, 91-106	5.1	24
365	Catalytic fast co-pyrolysis of organosolv lignin and polypropylene over in-situ red mud and ex-situ HZSM-5 in two-step catalytic micro reactor. <i>Applied Surface Science</i> , <b>2020</b> , 511, 145521	6.7	24
364	Bioenergy potential and thermochemical characterization of lignocellulosic biomass residues available in Pakistan. <i>Korean Journal of Chemical Engineering</i> , <b>2020</b> , 37, 1899-1906	2.8	24
363	Catalytic hydrodeoxygenation of Geodae-Uksae pyrolysis oil over Ni/desilicated HZSM-5. <i>Journal of Cleaner Production</i> , <b>2018</b> , 174, 763-770	10.3	24
362	Thermolysis of crude oil sludge using CO <sub>2</sub> as reactive gas medium. <i>Energy Conversion and Management</i> , <b>2019</b> , 186, 393-400	10.6	23
361	An aptamer cocktail-functionalized photocatalyst with enhanced antibacterial efficiency towards target bacteria. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 318, 247-254	12.8	23

360	Catalytic co-pyrolysis of polypropylene and <i>Laminaria japonica</i> over zeolitic materials. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 18434-18441	6.7	23
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357	Continuous pyrolysis of organosolv lignin and application of biochar on gasification of high density polyethylene. <i>Applied Energy</i> , <b>2019</b> , 255, 113801	10.7	22
356	Production of biofuels from pine needle via catalytic fast pyrolysis over HBeta. <i>Korean Journal of Chemical Engineering</i> , <b>2020</b> , 37, 493-496	2.8	22
355	Synthesis of butenes through 2-butanol dehydration over mesoporous materials produced from ferrierite. <i>Catalysis Today</i> , <b>2012</b> , 185, 191-197	5.3	22
354	Catalytic pyrolysis of <i>Laminaria japonica</i> over nanoporous catalysts using Py-GC/MS. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 500	5	22
353	Regeneration of field-spent activated carbon catalysts for low-temperature selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Chemical Engineering Journal</i> , <b>2011</b> , 174, 242-248	14.7	22
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351	Recycling of red mud as a catalyst for complete oxidation of benzene. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 60, 259-267	6.3	22
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348	Synthesis of nanoporous material from zeolite USY and catalytic application to bio-oil conversion. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 5439-44	1.3	21
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346	Characteristics of hydrogen production by photocatalytic water splitting using liquid phase plasma over Ag-doped TiO photocatalysts. <i>Environmental Research</i> , <b>2020</b> , 188, 109630	7.9	21
345	Copper promoted Co/MgO: A stable and efficient catalyst for glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 18073-18084	6.7	21
344	Preparation of egg-shell-type Ni/Ru bimetal alumina pellet catalysts: Steam methane reforming for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 18350-18357	6.7	20
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341	Pyrolysis kinetic analysis of poly(methyl methacrylate) using evolved gas analysis-mass spectrometry. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 1214-1221	2.8	20
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338	Pd/C catalyzed transfer hydrogenation of pyrolysis oil using 2-propanol as hydrogen source. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 119986	14.7	20
337	Valorization of sewage sludge via non-catalytic transesterification. <i>Environment International</i> , <b>2019</b> , 131, 105035	12.9	19
336	Catalytic ozone oxidation of benzene at low temperature over MnOx/Al-SBA-16 catalyst. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 14	5	19
335	Production of biohydrogen by aqueous phase reforming of polyols over platinum catalysts supported on three-dimensionally bimodal mesoporous carbon. <i>ChemSusChem</i> , <b>2012</b> , 5, 629-33	8.3	19
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330	Effect of methane co-feeding on product selectivity of catalytic pyrolysis of biomass. <i>Catalysis Today</i> , <b>2018</b> , 303, 200-206	5.3	18
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